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MINING ENGINEERING LITERATURE

COMPRISING AN

INDEX OF MINING, METALLURGICAL, CIVIL, MECHANICAL, ELECTRICAL AND CHEMICAL ENGINEERING SUBJECTS AS RELATED TO MINING ENGINEERING

BY

WALTER R. CRANE, PH.D.

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PREFACE

THE present volume, known as an Index of Mining Engineering Literature, will be found useful for all engineering professions, but especially to mining and metallurgical engineers and educators. It consists of a complete and carefully made index of eighteen engineering publications: journals, transactions and proceedings of societies, etc., which have in large part been cross-referenced, thus rendering valuable assistance to the reader in acquiring information not given in a general index, and which would not otherwise be accessible except through much tedious and painstaking research and extensive reading.

The work has grown out of the personal needs of the author in both educational and professional work. From a small number of selected references it has grown to such an extent, and has proven of such practical value that it was deemed advisable to publish it and thus place it within reach of members of the engineering professions. It represents the unaided labor of the author for a period of about five years, during which time he was actively engaged with other duties. Any errors that may occur are, therefore, due to his oversight and are not chargeable to others. The method of writing the references has changed from time to time as a result of experience in the work, and the use to which they have been put, which will explain why certain information is given in one instance and not in another. At the beginning of the work, the number of pages or columns, also the illustrations, were not considered of importance, and consequently were not given, and similarly with other minor points. Further, it will occasionally occur that the page as given will not be exact, which is due in large part to calculating backward, hastily, after ascertaining the number of pages or columns in the article, and in a similar manner the length may have been miscalculated by a page, column or a fraction of either. The author will consider it a favor if his attention is called to errors, in order that they may be corrected.

WALTER R. CRANE.

SCHOOL OF MINES AND METALLURGY,
THE PENNSYLVANIA STATE COLLEGE,
January 1, 1909.

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ABBREVIATIONS

Am. Jour. Min. — American Journal of Mining.
Ann. Min. Rept. N. S. Wales. — Annual Mining Report New South Wales.
Cal. Miners' Assoc. Annl. — California Miners' Association Annual.
Coll. Engr. — Colliery Engineer.
Coll. Engr. & Met. Miner. — Colliery Engineer and Metal Miner.
Coll. Working and Management. — Colliery Working and Management.
Coll. Guard. — Colliery Guardian.
Columbia Eng. — Columbia Engineer.
E. & M. J. — Engineering and Mining Journal.
Eng. News. — Engineering News.
Eng.-Cont. — Engineering-Contracting.
Eng. Mag. — Engineering Magazine.
Gold Min. & Mill. W. Aus. — Gold Mining & Milling in Western Australia.
J. C. M. I. — Journal Canadian Mining Institute.
J. C. M. Rev. — Journal Canadian Mining Review.
J. C. & M. Soc. S. A. — Journal Chemical and Metallurgical Society of South Africa.
J. W. Soc. E. — Journal Western Society of Engineers.
J. M. Soc. N. S. — Journal Mining Society of Nova Scotia.
Min. Mag. — Mining Magazine.
M. & M. — Mines and Minerals.
Min. & Sci. Press. — Mining and Scientific Press.
Mech. Eng. Coll. — Mechanical Engineering of Collieries.
P. C. M. & M. Soc. S. A. — Proceedings Chemical Mining and Metallurgical Society of South Africa.
P. E. Soc. W. Pa. — Proceedings Engineering Society of Western Pennsylvania.
P. C. M. — Practical Coal Mining.
P. I. C. E. — Proceedings Institute of Civil Engineers.
Rept. Inspr. Mines Pa. — Report Inspector of Mines of Pennsylvania.
Rept. Zinc Comm. Canada. — Report Zinc Commission of Canada.
R. R. Construction. — Railroad Construction.
Sch. Mines Quart. — School of Mines Quarterly.
Soc. P. E. E. — Society for the Promotion of Engineering Education.
Sci. Am. Supp. — Scientific American Supplement.
T. L. S. M. I. — Transactions Lake Superior Mining Institute.
T. I. M. E. — Transactions Institute of Mining Engineers.
T. A. I. M. E. — Transactions American Institute of Mining Engineers.
T. F. I. M. E. — Transactions Federated Institute of Mining Engineers.
T. I. M. & M. — Transactions Institution of Mining and Metallurgy.
T. N. S. I. M. & M. E. — Transactions North Staffordshire Institute of Mining and Mechanical Engineers.
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Conclusions Arrived at by Abel on Cause of Mine Explosions. T. A. I. M. E., vol. 13, p. 261.

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The Velocity of the Explosions in Gases. E. & M. J., vol. 45, p. 235. 1½ columns.

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Tamping and Tamping Materials

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Lime and Cement Analysis

REVIEW OF THE CHEMISTRY OF PORTLAND CEMENT. By F. H. Mason. Min. & Sci. Press, vol. 94, p. 724. 3½ columns.

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THE COMPARATIVE VALUE OF BRIMSTONE AND PYRITES IN THE MANUFACTURE OF SULPHURIC ACID. By J. H. Kelley. E. & M. J., vol. 54, p. 76, 1½ columns; vol. 55, p. 297.

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SULPHURIC ACID IN RUSSIA. E. & M. J., Mar. 16, 1905, p. 512. ⅔ column.

ACID MAKING FROM PYRRHOTITE. By E. A. Sjöstedt. J. C. M. I., vol. 7, p. 480. 14½ pages. I.

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MOND'S NEW PROCESS OF OBTAINING CHLORINE. E. & M. J., vol. 59, p. 31. 2⅓ columns. I.

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THE MANUFACTURE OF LIQUID SULPHUROUS ACID IN UPPER SILESIA. By K. Eilers. T. A. I. M. E., vol. 20, p. 336.

Determination of Antimony

DETERMINATION OF ARSENIC, ANTIMONY, COPPER, BISMUTH, IRON, ZINC AND SULPHUR IN LEAD BASE BULLION. P. E. Soc. W. Pa., vol. 10, p. 160. 4½ pages.

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Methods of Determining Sulphur

ANALYSIS OF CRUDE SULPHUR. E. & M. J., vol. 75, p. 854. Note.

THE VOLUMETRIC DETERMINATION OF SULPHUR AND AMMONIA IN ILLUMINATING GAS. By H. E. Saddler and B. Silliman. T. A. I. M. E., vol. 5, p. 387.

DETERMINATION OF SULPHUR IN ROASTED ZINC BLENDE. By V. Hassreidter. E. & M. J., vol. 83, p. 905. 2 columns.

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COAL TESTING: Methods of Determining Sulphur and Ash in Coal and Coke. By M. Brown. M. & M., vol. 26, p. 326, 3½ columns; p. 470, 2½ columns.

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ESTIMATING SULPHUR IN COAL. E. & M. J., vol. 66, p. 307. 1 column.

THE DETERMINATION OF SULPHUR IN SULPHIDES AND IN COAL AND COKE. By T. M. Drown. T. A. I. M. E., vol. 8, p. 569.

RELATIONS OF SULPHUR IN COAL AND COKE. By J. P. Kimball. T. A. I. M. E., vol. 8, p. 181.

An Accurate Estimation of Sulphur in Iron by the Evolution Method. By H. E. Walters and Robt. Miller. P. E. Soc. W. Pa., vol. 18, p. 83. 4½ pages.

The Determination of Sulphur in Iron by the Evolution Method. P. E. Soc. W. Pa., vol. 21, p. 417. 2½ pages.

Sulphur in Pig-Iron. P. E. Soc. W. Pa., vol. 9, p. 45. 8 pages.

The Estimation of Sulphur in Pyrites. E. & M. J., vol. 58, p. 514. ½ column.

Rapid Determination of Sulphur in Burnt Pyrites. By J. Watson. E. & M. J., vol. 49, p. 590. 3½ columns.

The Determination of Sulphur in Iron. By L. L. de Koninck. E. & M. J., vol. 59, p. 441. ½ column.

Sulphur in Cast-Iron. By W. J. Keep. T. A. I. M. E., vol. 23, p. 382.

Sulphur Determination in Steel. By M. Troilius. T. A. I. M. E., vol. 12, p. 507.

Gold and Silver Analysis

Note on a Form of Silver Obtained in the Reduction of the Sulphide by Hydrogen. By F. C. Phillips. P. E. Soc. W. Pa., vol. 10, p. 130. 2½ pages.

Method of Analysis of Gold-Silver Bullion. By J. E. Clennell. E. & M. J., vol. 83, p. 1099. 5½ columns.

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Testing Gold Dust. Min. & Sci. Press, vol. 50, p. 153. ⅔ column.

Detection of Gold in Dilute Solutions. By T. K. Rose. E. & M. J., vol. 54, p. 603, ½ column.

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On the Recovery of Silver from Cast Iron Crucibles. Min. & Sci. Press, vol. 31, p. 406. 1½ columns.

Determination of Silver in Blister Copper. By C. C. Sample. E. & M. J., vol. 80, p. 732. 1 column.

The Estimation of Gold and Silver in Antimony and Bismuth. By E. A. Smith. E. & M. J., vol. 56, p. 77. ½ column.

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The Determination of Phosphorus in Coal and Coke. By J. Lychenheim. T. A. I. M. E., vol. 24, p. 66 and p. 862.

A Rapid Method for the Determination of Phosphorus. By F. A. Emmerton. T. A. I. M. E., vol. 15, p. 93.

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Notes on Emmerton's Method of the Determination of Phosphorus. By H. C. Babbitt. T. A. I. M. E., vol. 21, p. 794.

The Exact Determination of Phosphorus by a Molybdate Method in Iron, Steel and Ores which Contain Arsenic. By J. O. Handy. P. E. Soc. W. Pa., vol. 9, p. 377. 5 pages.

A Rapid Method for Phosphorus Determination in Iron, Steel and Ores. P. E. Soc. W. Pa., vol. 8, p. 78. 9 pages.

The Estimation of Titanium and Phosphorus in Iron Ores. By E. P. Jennings. E. & M. J., vol. 45, p. 475. ½ column.

The Analysis of Iron Ores Containing Both Phosphoric and Titanic Acids. By T. M. Drown and P. W. Shimer. E. & M. J., vol. 32, p. 353. 2½ columns.

A Rapid Method for the Determination of Phosphorus in Certain Ores. By T. Reed Woodbridge. T. A. I. M. E., vol. 17, p. 750.

Phosphate Chemistry as it Concerns the Miner. By T. C. Chatard. T. A. I. M. E., vol. 21, p. 160.

Note on the Determination of Phosphorus in Iron. By F. E. Bachman and F. Julian. T. A. I. M. E., vol. 10, p. 322; vol. 12, p. 518.

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Use of Plates in Amalgamation

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For further information, see AMALGAMATION.

Pan Amalgamation

PAN VS. TINA AMALGAMATION. By P. Blanca. E. & M. J., vol. 60, p. 586. 1¾ columns.

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See PAN AMALGAMATION for further information on AMALGAMATORS.

The Patio Process of Amalgamation

THE PATIO PROCESS IN SAN DIMAS, MEXICO. By R. E. Chism. T. A. I. M. E., vol. 11, p. 61.

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Losses in Milling

LOSSES OF GOLD IN MILL WATER. By A. Von Gernet. J. C. & M. Soc. S. A., vol. 2, p. 529, 2½ pages; and p. 602, 2 pages.

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Dry Concentration

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A DRY PROCESS FOR THE TREATMENT OF COMPLEX SULPHIDE ORES. By H. Livingstone Sulman. T. I. M. & M., vol. 10, p. 430. 28 pages.

THE "CROWN" DRY CONCENTRATING SYSTEM. E. & M. J., vol. 71, p. 694. 1¾ columns. I.

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Practice in Milling Ores.

SILVER MINING AND MILLING AT BUTTE, MONT. By W. P. Blake. T. A. I. M. E., vol. 16, p. 38.

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MILLING ARIZONA GOLD-ORES WITH A COLORADO STAMP-MILL. By W. S. Morse. T. A. I. M. E., vol. 25, p. 130.

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CONVEYORS FOR MINERAL AND COAL

Kinds of Conveyors, Operation, etc.

SLIDING-TROUGH CONVEYORS. By M. Malplat. T. I. M. E., vol. 33, p. 198. 3 pages. I.

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DAMS FOR MINING PURPOSES

Stresses in Dams, Their Stability, and Other Data

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Austro-Hungary

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EMERALD MINES OF AUSTRIA. By A. Thompson. E. & M. J., vol. 82, p. 267. ½ column.

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Belgium

THE MINING INDUSTRY OF BELGIUM. By A. Briat. T. I. M. E., vol. 15, p. 470. 20 pages.

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UNITED COLLIERIES OF THE WEST OF MONS, BOUSSU, BELGIUM. E. & M. J., vol. 59, p. 291. 1 column.

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Brazil

THE GOLD-FIELD OF PARACATÚ, MINAS GERAES, BRAZIL. By H. Pearson. T. I. M. E., vol. 31, p. 257. 7½ pages.

NOTES ON BRAZILIAN GOLD ORES. By O. A. Derby. E. & M. J., vol. 74, p. 142. 3 columns.

GOLD MINES OF MINAS, BRAZIL. E. & M. J., vol. 78, p. 547. 4 columns. I.

THE GOLD-FIELDS OF CALCOENE, BRAZIL. By M. Cleri. E. & M. J., vol. 75, p. 328. 3 columns. I.

HISTORICAL SKETCH OF GOLD MINING IN MINAS GERAES, BRAZIL. By A. Medrado. E. & M. J., vol. 73, p. 447. 1¾ columns.

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THE MORRO VELHO GOLD MINE, BRAZIL. E. & M. J., vol. 72, p. 485. 9½ columns. I.

GOLD IN THE HIGHLANDS OF BRAZIL. By J. C. Branner. E. & M. J., vol. 59, p. 55. 1 column.

THE GOLD-FIELD OF THE STATE OF MINAS GERAES, BRAZIL. By H. K. Scott. T. A. I. M. E., vol. 33, p. 406.

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GOLD-MINING IN BRAZIL. By E. M. Touzeau. T. F. I. M. E., vol. 4, p. 219. 14 pages.

GOLD IN THE PROVINCE OF MINAS-GERAES, BRAZIL. E. & M. J., vol. 36, p. 248. 2 columns.

DIAMOND AND GOLD MINING IN MINAS GERAES, BRAZIL. Min. & Sci. Press, vol. 78, p. 640, 2⅓ columns; p. 668, 2 columns; vol. 79, p. 9, 2⅓ columns; and p. 37, 1½ columns.

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Diamond Mining in the Province of Minas-Geraes, Brazil. E. & M. J., vol. 36, p. 216, 1¾ columns; and p. 233, 1 column.

Brazilian Diamonds and Carbons. E. & M. J., vol. 33, p. 132. ½ column. I.

Diamond Mining in Brazil. E. & M. J., vol. 77, p. 893. ⅓ column.

The Diamond Deposits of Salobro, Brazil. By F. de Paula Oliverra. E. & M. J., vol. 72, p. 635. 4 columns.

Carbons in Brazil. M. & M., vol. 19, p. 203. 1 column.

The Manganese Deposits of Gandarella, Minas Geraes, Brazil. By J. G. Michaeli. E. & M. J., vol. 72, p. 818. 1½ columns.

The Ore Deposits and Mines of Minas Geraes, Brazil. By A. Mezger. E. & M. J., vol. 50, p. 239, 1½ columns; and p. 272, 2 columns.

Manganese Mining in Bahia, Brazil. M. & M., vol. 20, p. 138. 1 column.

The Manganese-Deposits of Bahia and Minas, Brazil. By J. C. Branner. T. A. I. M. E., vol. 29, p. 756.

Manganese Mining in Brazil. E. & M. J., vol. 68, p. 219. 1 column.

On the Occurrence of Mica in Brazil and on Its Preparation for the Market. By H. K. Scott. T. I. M. & M., vol. 12, p. 351. 14 pages. I. Map.

The Minerals of Brazil. By J. Ross. E. & M. J., vol. 59, p. 125. 3 columns.

The Mineral Resources of the State of Rio Grande do Sul, Brazil. By H. K. Scott. T. I. M. E., vol. 25, p. 510. 18 pages. I.

Mining Conditions and Mineral Resources in Brazil. E. & M. J., vol. 72, p. 428. 2 columns. I.

The Mines of Brazil. By A. M. Gibson. E. & M. J., vol. 53, p. 277. 1½ columns.

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Matto Grosso, Brazil. By A. Brandenburg. E. & M. J., vol. 82, p. 386. 2½ columns.

The Mineral Industry of Brazil. By M. A. R. Lisboa. E. & M. J., vol. 83, p. 419. 5½ columns. I.

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Palladium and Platinum in Brazil. T. I. M. E., vol. 30, p. 607. 1 page.

The Coal Fields of Rio Grande do Sul, Brazil. By R. Henschel. E. & M. J., vol. 10, p. 66. 3½ columns. I.

Bolivia

The Tipuani Gold-Fields of Bolivia. By W. C. Agle. E. & M. J., vol. 63, p. 544. 1¼ columns.

The Cruro Silver Mines in Bolivia. By J. Bosadre. E. & M. J., vol. 60, p. 440. 1 column.

The Potosi, Bolivia, Silver District. By A. F. Wendt. T. A. I. M. E., vol. 19, p. 74.

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Minerals Found in the Silver Lodes of Tatasi and Portugatete, Bolivia. By M. Roberts. T. I. M. & M., vol. 7, p. 91. 2½ pages.

Chorolque Tin Mines and Alluvial Deposits, Bolivia. By M. Roberts. T. I. M. & M., vol. 9, p. 372. 3½ pages.

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THE TIN MINES OF BOLIVIA. By W. McDermott. T. I. M. & M., vol. 7, p. 77. 15 pages.

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NOTES ON THE HUANCHACA MINE, BOLIVIA, SOUTH AMERICA. By Robt. Peele. Sch. Mines Quart., vol. 14, p. 152. 4 pages.

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THE MINERAL RESOURCES OF BOLIVIA. By J. B. Minchin. E. & M. J., vol. 50, p. 192. 3½ columns. I.

THE MINES OF BOLIVIA. E. & M. J., vol. 48, p. 52. 1 column.

SKETCH OF THE BOLIVIAN REPUBLIC, SOUTH AMERICA. E. & M. J. vol. 42, p. 220, 4 columns, I.; and p. 238, 4 columns.

RAILWAY AND MINING DEVELOPMENTS IN BOLIVIA. E. & M. J., vol. 82, p. 2. 3 columns.

British Columbia

MINING PRACTICE AT ROSSLAND, BRITISH COLUMBIA: The Methods of Development at War Eagle and Centre Star. By R. B. Brinsmade. M. & M., vol. 21, p. 363. 10 columns. I.

A TRIP TO ROSSLAND, BRITISH COLUMBIA: An Account of Some of the Mines and the Peculiarities of the Ores. By A. Lakes. M. & M., July, 1900, p. 543. 6 columns.

MINING IN THE ROSSLAND DISTRICT. By C. M. Campbell. J. C. M. I., vol. 5, p. 447. 45 pages. I.

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THE CENTER STAR MINE, ROSSLAND, BRITISH COLUMBIA. By L. H. Cole. Min. & Sci. Press, vol. 90, p. 104, 1¾ columns, I.; p. 117, 2½ columns, I.; and p. 140, 1¼ columns.

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BRITISH COLUMBIA: The Big Bend District, West Kootenay. By F. L. Nason. E. & M. J., vol. 63, p. 453. 2¼ columns.

THE PYRAMID MINERAL DISTRICT, EAST KOOTENAY, BRITISH COLUMBIA. E. & M. J., vol. 65, p. 698. 1 column.

THE SLOCAN MINING DISTRICT, BRITISH COLUMBIA. By W. M. Brewer. E. & M. J., vol. 65, p. 549. 1 column.

THE CASSIAR DISTRICT, BRITISH COLUMBIA. E. & M. J., vol. 67, p. 205. 4¾ columns. I.

THE ATLIN DISTRICT IN BRITISH COLUMBIA. By W. M. Brook. E. & M. J., vol. 68, p. 605. 2¾ columns. I.

THE BOUNDARY DISTRICT, BRITISH COLUMBIA. By C. A. Bramble. E. & M. J., vol. 68, p. 699. 2 columns.

NOTES FROM THE SIMILKAMEEN DISTRICT, BRITISH COLUMBIA. By C. A. Bramble. E. & M. J., vol. 69, p. 229. 1 column.

QUESNELLE FORKS MINING DIVISION OF BRITISH COLUMBIA. By W. M. Brewer. M. & M., Feb., 1904, p. 297. 6¾ columns.

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NOTES ON ATLIN GOLD FIELDS. By J. C. Gwillim. J. C. M. I., vol. 3, p. 97. 5 pages.

NOTES ON THE GOLD-BEARING LODES OF CAYOOSH CREEK, BRITISH COLUMBIA. By G. F. Monckton. T. F. C. M. I., vol. 2, p. 1. 4 pages.

AN OCCURRENCE OF FREE-MILLING GOLD VEINS IN BRITISH COLUMBIA. By W. H. Merritt. J. C. M. I., vol. 2, p. 143. 9 pages.

GOLD-BEARING REEFS AND PLACERS OF NORTHERN BRITISH COLUMBIA. By W. H. Merritt. T. F. C. M. I., vol. 3, p. 103. 9 pages. I.

THE ORE DEPOSITS OF THE BOUNDARY CREEK DISTRICT, BRITISH COLUMBIA. By R. W. Brock. J. C. M. I., vol. 5, p. 365. 14 pages.

THE IRON ORE DEPOSITS NEAR KITCHENER, BRITISH COLUMBIA. By W. Blakemore. J. C. M. I., vol. 5, p. 76. 4 pages. I.

CHARACTERISTICS OF THE ATLIN GOLD FIELD. By J. C. Gwillim. J. C. M. I., vol. 5, p. 21. 10 pages. I.

THE HUNTER V. MINE, BRITISH COLUMBIA. By J. Ashworth. T. I. M. E., vol. 29, p. 338. 11 pages. I.

NOTES ON MINING AND SMELTING IN THE BOUNDARY DISTRICT, BRITISH COLUMBIA. By F. Keffer. J. C. M. I., vol. 7, p. 42. 5 pages. I.

THE BOUNDARY DISTRICT, BRITISH COLUMBIA. By F. Rickard. Min. & Sci. Press, vol. 94, p. 511. 6 columns. I.

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ROUTES TO THE YUKON GOLD FIELDS. Placer Mining, Chaps. 4 and 5, pp. 22, 35.

THE BRIDGE RIVER GOLD MINING CAMP. By F. Crikel. J. C. M. I., vol. 3, p. 21. 9 pages. I.

COAL MINING IN THE CROW'S NEST PASS. E. & M. J., vol. 78, p. 59. 1½ columns.

THE BRITISH COLUMBIA MINE, SUMMIT CAMP, BOUNDARY DISTRICT. By S. F. Parrish. E. & M. J., vol. 72, p. 92. 2 columns. I.

MINING IN BRITISH COLUMBIA, CANADA. By E. Jacobs. E. & M. J., vol. 72, p. 254. 2½ columns. I.

THE JEWEL GOLD MINE, BOUNDARY DISTRICT, BRITISH COLUMBIA. E. & M. J., vol. 72, p. 382. 2¼ columns. I.

MINING IN BRITISH COLUMBIA. E. & M. J., vol. 72, p. 386. 3 columns. I.

BRITISH COLUMBIA: Texada Island. By W. M. Brewer. E. & M. J., vol. 72, p. 665. 6½ columns. I.

CAMP MCKINNEY, BRITISH COLUMBIA. By W. M. Brewer. E. & M. J., vol. 72, p. 784. 3 columns. I.

VANCOUVER ISLAND MINES AND PROSPECTS. By W. M. Brewer. E. & M. J., vol. 72, p. 846. 8 columns. I.

MINING IN BRITISH COLUMBIA: Atlin Mining District; Boulder, Pine and Spruce Creeks; Muro Mountain. By W. M. Brewer. E. & M. J., vol. 72, p. 516. 5½ columns. I.

BRITISH COLUMBIA: Boundary Mining District. Progress in Mining and Smelting. By W. M. Brewer. E. & M. J., vol. 73, p. 617. 10½ columns. I.

BOUNDARY DISTRICT OF BRITISH COLUMBIA. By E. Jacobs. E. & M. J., vol. 73, p. 302. 6¾ columns. I.

NOTES FROM THE ATLIN DISTRICT, BRITISH COLUMBIA. By W. M. Brook. E. & M. J., vol. 74, p. 707. 5½ columns. I.

THE BOUNDARY DISTRICT, BRITISH COLUMBIA. By E. Jacobs. E. & M. J., vol. 76, p. 272. 7¾ columns. I.

THE ATLIN DISTRICT, BRITISH COLUMBIA. By W. W. Grime. E. & M. J., vol. 77, p. 523. 2 columns. I.

THE SNOWSHOE MINE, BOUNDARY DISTRICT, BRITISH COLUMBIA. By E. Jacobs. E. & M. J., vol. 72, p. 661. 4 columns. I.

THE ST. EUGENE MINE, BRITISH COLUMBIA. By E. Jacobs. E. & M. J., vol. 77, p. 966. 2½ columns.

WHITE HORSE DISTRICT IN YUKON TERRITORY. By W. M. Brewer. M. & M., vol. 24, p. 28. 6½ columns. I.

THE TRAIL CREEK DISTRICT, BRITISH COLUMBIA. By P. C. Stoess. E. & M. J., vol. 58, p. 319. 1 column. Map.

WINDY ARM MINERAL LOCATIONS, BRITISH COLUMBIA. By W. F. Robertson. E. & M. J., vol. 81, p. 701. 6 columns. I.

THE CARIBOO QUARTZ LEDGES, BRITISH COLUMBIA. Min. & Sci. Press, vol. 36, p. 33, 3 columns, I.; and p. 82, ¾ column.

TRAIL CREEK (BRITISH COLUMBIA) MINING DISTRICT. Min. & Sci. Press, vol. 73, p. 236. 3¼ columns.

RECENT MINERAL DISCOVERIES ON WINDY ARM OF TAGISH LAKE, BRITISH COLUMBIA. By R. G. McConnell. M. & M., vol. 27, p. 15. 3 columns.

THE ATLIN GOLD FIELDS OF BRITISH COLUMBIA. By J. H. Brownlee. Min. & Sci. Press, vol. 80, p. 549. 5 columns. I.

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NOTES ON THE DROMEDARY GOLD-MINES. By S. L. Bensusan. T. I. M. & M., vol. 9, p. 306. 4 pages.

SILVER MINES OF WEST KOOTENAY, BRITISH COLUMBIA. By E. D. Ingall. J. M. Soc. N. S., vol. 3, p. 141. 8½ pages.

RAMBLER-CARIBOO MINES, SLOCAN DISTRICT, BRITISH COLUMBIA. E. & M. J., vol. 82, p. 781. 1 column.

THE LE ROI MINE. By O. Hall. J. C. M. I., vol. 5, p. 403. 18 pages.

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THE SILVER-LEAD DEPOSITS OF THE SLOCAN, BRITISH COLUMBIA. By J. D. Kendall. T. I. M. & M., vol. 7, p. 273. 46 pages. I.

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NOTES ON THE BRITISH COLUMBIA ZINC PROBLEM. By A. C. Garde. J. C. M. I., vol. 7, p. 368. 9 pages.

The Zinc Resources of British Columbia. E. & M. J., vol. 82, p. 1069. 2½ columns.

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The Gold-Mines of the San Pedro District, Cerro de San Pedro, State of San Luis Potosi, Mexico. By G. A. Laird. T. A. I. M. E., vol. 35, p. 858. 20 pages. I.

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Minas Nuevas, Parral, Mexico. By G. A. Burr. E. & M. J., vol. 75, p. 404, 6½ columns, I.; and p. 440, 2½ columns, I.

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Mining Conditions in the Mountains of Chihuahua, Mexico. By J. B. Farish. E. & M. J., vol. 83, p. 221. 17 columns. I.

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Proano, a Famous Mine of Fresnillo, Mexico. By J. A. Church. E. & M. J., vol. 84, p. 53. 9½ columns. I.

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Old and New Methods at Guanajuato. By T. A. Rickard. Min. & Sci. Press, vol. 94, p. 824. 3¾ columns. I.

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Some Silver-Bearing Veins of Mexico. By E. Halse. T. I. M. E., vol. 27, p. 169. 22 pages. I.

"Los Reyes" Gold Mines, Southern Mexico. By A. H. Smith. J. C. M. I., vol. 8, p. 272. 12 pages. I.

The Sierra Mojada, Coahuila, Mexico, and Its Ore-Deposits. By J. W. Malcolmson. T. A. I. M. E., vol. 32, p. 100.

Copper Deposits in Sinoloa and Southern Sonora, Mexico. By F. Rickard. E. & M. J., vol. 78, p. 97. 7 columns. I.

La Cananea Mining Camp. By G. E. Woodbridge. E. & M. J., vol. 82, p. 623. 14 columns. I.

Santa Cruz, a New Copper Camp in Sonora. By F. J. H. Merrill. E. & M. J., vol. 83, p. 1043. 1 column. I.

The Cananea Copper Deposits. By R. B. Brinsmade. M. & M., vol. 27, p. 422. 4¾ columns. I.

The Copper-Deposits at San Jose, Tamaulipas, Mexico. By J. F. Kemp. T. A. I. M. E., vol. 36, p. 178. 25 pages. I.

The Taviche Mining District near Ocotlan, State of Oaxaca, Mexico. T. A. I. M. E., vol. 36, p. 798. 2½ pages.

The Mines of Cananea, Mexico. Min. & Sci. Press, vol. 90, p. 200, 2 columns, I.; p. 220, 3½ columns.

Copper Mining at Placeritas de Nocasari, Sonora, Mexico. By H. B. Layton. Min. & Sci. Press, vol. 80, p. 344. 8 columns. I.

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The Cananea Copper Deposits, Mexico. By W. H. Weed. E. & M. J., vol. 74, p. 744. 5 column. I.

Arizona and Sonora. By D. E. Woodbridge. E. & M. J., vol. 81, p. 896, I.; p. 990, I.; p. 1134, 4½ columns; p. 1180, 6½ columns; p. 1229, 10½ columns; vol. 82, p. 8, 8½ columns; p. 50, 7¾ columns, I.; p. 103, 9 columns, I.; p. 150, 5 columns; p. 242, 9 columns, I.; p. 298, 9½ columns, I.

The Copper Mines of Nocasari, Mexico. E. & M. J., vol. 72, p. 65. 2 columns.

The Copper-Deposits at San Jose, Mexico. By J. F. Kemp. T. A. I. M. E., vol. 36, p. 178. 25 pages. I.

The Cananea Copper Deposits. By R. B. Brinsmade. M. & M., vol. 27, p. 465. 10 columns. I.

A New Copper District in Mexico. By. E. du B. Lukis. E. & M. J., vol. 65, p. 279. 3 columns. I.

The Iron Mountain and Plant of the Mexican National Iron and Steel Company, Durango, Mexico. By T. E. Witherbee. T. A. I. M. E., vol. 32, p. 156.

Iron in Mexico. By R. E. Chism. E. & M. J., vol. 46, p. 391. 2 columns.

The Cerro de Mercado (Iron Mountain) at Durango, Mexico. By J. Birkinbine. T. A. I. M. E., vol. 13, p. 189.

A Coking Coal in Chihuahua. By W. B. Phillips. E. & M. J., vol. 79, p. 661. 4 columns. I.

Las Esperanzas Coal Mines, Mexico. By E. Ludlow. E. & M. J., vol. 71, p. 331. 2 columns. I.

The Coal-Fields of Las Esperanzas, Coahuila, Mexico. By E. Ludlow. T. A. I. M. E., vol. 32, p. 140.

Coals in Mexico, Santa Rosa District. By W. H. Adams. T. A. I. M. E., vol. 10, p. 270.

The Coalfields of Mexico. E. & M. J., vol. 57, p. 535. ¾ column.

The Coal-Fields of Sonora, Mexico. By J. Overend. T. F. I. M E., vol. 7, p. 230. 4 pages.

The Sabinas Coalfield, Mexico. By E. G. Tuttle. E. & M. J., vol. 58, p. 390. 3½ columns. I.

The Cerrillos Anthracite Mines. By A. Lakes. M. & M., vol. 21, p. 341. 1½ columns. I.

Natural Coke of the Santa Clara Coal-Field, Sonora, Mexico. By E. T. Dumble. T. A. I. M. E.,vol. 29, p. 546.

Notes on the Tin-Deposits of Mexico. By W. R. Ingalls. T. A. I. M. E., vol. 27, p. 428.

The Tin-Deposits of Durango, Mexico. By W. R. Ingalls. T. A. I. M. E., vol. 25, pp. 146, 997.

The Sain Alto Tin Deposits, State of Zacatecas, Mexico. By J. N. Nevins. E. & M. J., vol. 75, p. 929. 2 columns. I.

Tin-Mining and Smelting at Santa Barbara, Guanajuato, Mexico. By A. H. Bromly. T. A. I. M. E., vol. 36, p. 227. 7 pages. I.

The Occurrence of Tin-Ore at Sain Alto, Zacatecas, with Reference to Similar Deposits in San Luis Potosi and Durango, Mexico. By E. Halse. T. A. I. M. E., vol. 29, p. 502.

The San Jacinto Tin Mines, Mexico. Min. & Sci. Press, vol. 39, p. 397. 3¾ columns. Map.

Quicksilver Ores in Mexico. Min. & Sci. Press, vol. 57, p. 38. 1 column.

Quicksilver Mining in the District of Guadalcazar, State of San Luis Potosi, Mexico. By H. F. Collins. T. I. M. & M., vol. 4, p. 121.

The Quicksilver Mines and Reduction-Works at Huitzuco, Guerrero, Mexico. By E. Halse. T. F. I. M. E., vol. 10, p. 72. 16 pages. I.

Mining and Treatment of Quicksilver Ores at Guadalcazar, Mexico. By W. H. Rundall. E. & M. J., vol. 59, p. 607. 2¾ columns. I.

The Quicksilver Deposits of Huitzuco. By F. D. Pagliucci. E. & M. J., Mar. 2, 1905, p. 417. 3 columns. I.

Salt Production in Mexico. E. & M. J., vol. 84, p. 626. ¾ column.

The Mineral Zone of Santa Maria del Rio, San Luis Potosi, Mexico. By Jesus P. Manzano. T. A. I. M. E., vol. 32, p. 478.

Notes on the Structure of Ore-Bearing Veins in Mexico. By E. Halse. T. A. I. M. E., vol. 32, p. 285.

The West Coast of Mexico. By D. E. Woodbridge. E. & M. J., vol. 84, p. 394. 6 columns.

Asphalt in Mexico. E. & M. J., vol. 62, p. 610. ¼ column.

Note on the Antimony Deposit of El Altar, Sonora, Mexico. By E. Halse. T. F. I. M. E., vol. 6, p. 290. 4 pages.

Notes on the Occurrence of Manganese Ore near Mulege, Baja, California, Mexico. By E. Halse. T. F. I. M. E., vol. 3, p. 934. 7 pages. I.

Gems and Precious Stones of Mexico. By G. F. Kunz. T. A. I. M. E., vol. 32, p. 55.

Mexican Onyx Mines. E. & M. J., vol. 52, p. 729. 1½ columns.

The Sahuayacan District, Mexico. By R. M. Bogg, Jr. E. & M. J., vol. 79, p. 749. 4¾ columns. I.

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DRILLING AND BORING

Hand Drills

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ON THE OCCURRENCE OF LUSTROUS COAL WITH NATIVE SILVER IN A VEIN OF PORPHYRY IN OURAY COUNTY, COLORADO. By G. A. Koenig. T. A. I. M. E., vol. 9, p. 650.

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THE SILVER ISLET MINE AND ITS PRESENT DEVELOPMENT. By F. A. Lowe. E. & M. J., vol. 34, p. 320. 4½ columns.

THE SILVER ISLET VEIN, LAKE SUPERIOR. By W. McDermott. E. & M. J., vol. 23, p. 54, 1¾ columns; and p. 70, 1½ columns.

A WHOLE ISLAND OF SILVER ON THE NORTH SHORE OF LAKE SUPERIOR (Silver Islet). E. & M. J., vol. 11, p. 4. ¾ column.

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THE RAINY LAKE GOLD DISTRICT. E. & M. J., vol. 58, p. 581. 1 column.

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THE GOLD-FIELDS OF THE RAINY RIVER DISTRICT. By H. V. Winchell. E. & M. J., vol. 64, p. 485. 3¾ columns. I.

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See METALLURGY OF VARIOUS METALS for further information on Roasting.

Pyritic Smelting

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METALS

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Illumination of Mines and Buildings, etc.

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SUNLIGHT IN A VERTICAL SHAFT. By J. N. Nevius. E. & M. J., vol. 74, p. 183. 1 column. I.

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Safety Lamps, and Testing by Safety Lamps

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Methods of Stoping in Mines

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Mining Machinery at the Face

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